

# PATENT ABSTRACTS OF JAPAN

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## (54) PROGRAM DOWN LOADING SYSTEM

(57)Abstract:

PURPOSE: To exchange the programs with no exchange of ROMs and no discontinuation of the system operation by down loading a program to a memory from the outside of a software system.

CONSTITUTION: The memory contents of programs of two systems are stored in the memories EEPROM 1 and 2 respectively, and a fact whether its own system is equal to a program of a working system, or to an old program, to a new program, or to an abnormal NG state of the program data is held as a state flag. Thus a program is inputted from the outside of a software system and down loaded. Then the program is stored in a memory of a system except the working system and the self-restart is carried out with the stored program defined as a new working system. In such a constitution, it is not required to stop the operation of a new ROM storing a new program and to exchange this ROM

with another. Thus the operability is improved in a program down loading system.

